

is profusely ornamented with long pendent racemes of purple flowers. The small corolla is intensely colored and looks like a violet in the center of the paler lavender of the showy, star-shaped calyx." (*Lopez.*)

49032 to 49050.

From Rochester, N. Y. Collected by Mr. H. E. Allanson and through the courtesy of Mr. Dunbar, of the city parks of Rochester, presented to this office for distribution. Numbered December 31, 1919.

49032. COTONEASTER ZABELI C. Schneid. Malaceæ.

This is the common cotoneaster of the thickets in western Hupeh, China, where it forms a bush up to 8 feet in height, with oval elliptic leaves, pink flowers, and red fruits. (Adapted from *Sargent, Plantae Wilsonianae*, vol. 1, p. 166.)

For previous introduction, see S. P. I. No. 45707.

49033 and 49034. JUGLANS RUPESTRIS Engelm. Juglandaceæ. Walnut.

A tree about 50 feet in height, with a short trunk sometimes 5 feet thick and dark yellow-green pinnate leaves 7 to 15 inches in length. The nuts are nearly globose, dark reddish brown to black, and up to 1½ inches in diameter. This walnut is distributed throughout central and western Texas, Arizona, and northern Mexico. (Adapted from *Sargent, Manual of the Trees of North America*, p. 129.)

49033. Ordinary form.

49034. Form with large nuts.

49035. × MALUS DAWSONIANA Rehder. Malaceæ.

Apple.

A tree with ascending or spreading branches, reddish brown bark, clusters of very small white flowers, and yellow or greenish yellow fruits which are pulpy and acid when ripe. This species is interesting as the first known hybrid of *M. fusca*. (Adapted from *Sargent, Trees and Shrubs*, vol. 2, p. 23.)

49036. MALUS GLAUDESCENS Rehder. Malaceæ.

Apple.

(*Pyrus glaucescens* Bailey.)

An arborescent shrub or small tree, with a slender trunk and spreading branches. The leaves are bronze in color when they unfold, becoming yellowish green and turning in autumn to a dull yellow or dark purple. The white or pink flowers, up to 4 cm. in diameter, are borne in umbellike racemes, and the fragrant yellow fruits are from 3 to 4 cm. in diameter. This tree is native to the eastern United States. (Adapted from *Sargent, Trees and Shrubs*, vol. 2, p. 139.)

For previous introduction, see S. P. I. No. 42760.

49037. MALUS NIEDZWETSKYANA Dieck. Malaceæ.

Apple.

(*Pyrus niedzwetskyana* Hemsl.)

A small tree, with dark bark and twigs, purple leaves, and dark purplish red flowers and fruit, even the flesh of the fruit being purple. It is native to Turkestan. (Adapted from *Bulletin of Popular Information* No. 39, *Arnold Arboretum*.)

49038. MALUS PRUNIFOLIA (Willd.) Borkh. Malaceæ.

Apple.

(*Pyrus prunifolia* Willd.)

"For years this was considered a hybrid between *Pyrus baccata* and *P. malus* or other species, but it is now considered by Rehder to be a good species, as yet known only in cultivation, although supposed to